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DT05 Rec'd PCT/PTO 10 FEB 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : **WOLF, David, et. al.**
Serial No. : **concurrently herewith**
Filed : **concurrently herewith**
Priority Date : **15 August 2002 (15.08.02)**
Title : **Light Fixture Cross-Reference to Related Applications**

10 February 2005

Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

PRIORITY CLAIM

SIR:

This application is the National Stage of International Application No. **PCT/US2003/025837**, filed **14 August 2003**, which claims the benefit under 35 U.S.C. 119(e) of **Provisional Patent Application No. 60/403,698**, filed **15 August 2002**, and **Provisional Patent Application No. 60/468,206**, filed **06 May 2003** now pending, which is hereby incorporated by reference.

Respectfully submitted,



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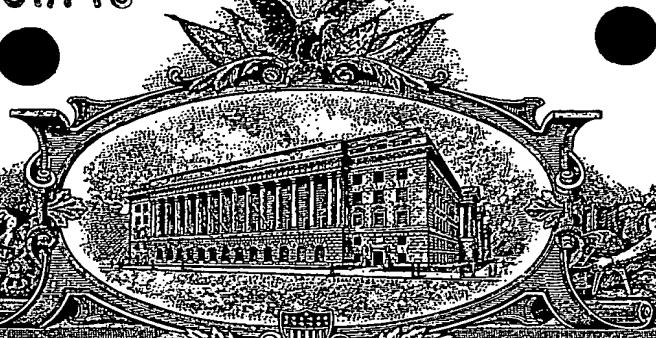
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APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE.

APPLICATION NUMBER: 60/468,206

FILING DATE: May 06, 2003

RELATED PCT APPLICATION NUMBER: PCT/US03/25837



By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS

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PRIORITY DOCUMENT

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J1046 S. PTO
J1046 60/468206

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

INVENTOR(S)

Given Name (first and middle [if any]) David Eugene	Family Name or Surname WOLF DIACONU	Residence (City and either State or Foreign Country) Brooklyn, New York Bensalem, Pennsylvania
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Additional inventors are being named on the _____ separately numbered sheets attached hereto

TITLE OF THE INVENTION (280 characters max)

LIGHT FIXTURE

Direct all correspondence to:

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ENCLOSED APPLICATION PARTS (check all that apply)

<input checked="" type="checkbox"/> Specification Number of Pages	3	<input type="checkbox"/> CD(s), Number	
<input checked="" type="checkbox"/> Drawing(s) Number of Sheets	9	<input checked="" type="checkbox"/> Other (specify)	Itemized Postcard
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76			

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)

<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.	FILING FEE AMOUNT (\$)
<input type="checkbox"/> A check or money order is enclosed to cover the filing fees	
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number:	50-1290
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.	\$80.00

The invention was made by an agency of the United States Government or under a contract with an agency of the
United States Government.

No.

Yes, the name of the U.S. Government agency and the Government contract number are: _____

Respectfully submitted,

SIGNATURE

Date 5/06/03

TYPED or PRINTED NAME

Harris A. Wolin

REGISTRATION NO.
(if appropriate)
Docket Number:

39,432

TELEPHONE

212-940-8800

WOLF 19.787P-A

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

Filed by Express Mail
(Receipt No. E133228499SUS)
on May 12, 2003
pursuant to 37 C.F.R. 1.10.
by Col G.P.L.

LIGHT FIXTURE

The present invention is related to U.S. Provisional Application 60/403,698 filed August 15, 1998.

FIG. 1 is an exploded side view of one embodiment of the light fixture of the 5 present invention. FIG. 2 is a perspective view thereof. FIG. 3 is an exploded perspective view thereof. FIG. 4 is an assembled side view thereof shown in cross-section. FIG. 5 is an exploded side view of an alternative embodiment of the light fixture of the present invention. FIG. 6 is a perspective view thereof. FIG. 7 is an exploded perspective view thereof. FIG. 8 is an assembled side view thereof shown in cross- 10 section. FIG. 9 is an exploded perspective view of one embodiment of a firebox of the present invention for housing a light fixture of the present invention. FIG. 10 illustrates a light fixture housed in the firebox of FIG. 9. FIG. 11 is a perspective view of the firebox thereof shown without the insulation. FIG. 12. is a perspective view of the firebox of the invention with insulation retainers.

15 With respect to the embodiment of FIGS. 1-4, the light fixture is molded in polycarbonate as one piece. The junction box is part of the can. It features vents above the fluorescent lamp socket to release heat. The fluorescent lamp socket is secured between the socket holder plate and a back plate, which clip together. The junction box has knockouts molded into both sides for electrical connections. The baffle clips into the 20 can using cantilever clips, making it removable. The ceiling ring is low profile and clips into the baffle. This snap-in ceiling ring insures simpler removal from the ceiling. The

reflector is secured to the can by 2 screws. Ellipsoidal geometry is used to create the form factor of the reflector, achieving superior light output efficiencies. The junction box has 2 hinged lids one on top, one on bottom, for ease of wiring. The can has 4 holes on top to fasten a framing kit.

5 With respect to the embodiment of FIGS. 5-8, which is preferably smaller than the embodiment of FIGS. 1-4, the light fixture is molded in polycarbonate as one piece. The embodiment of FIGS. 1-4 illustrates an eight-inch can, while the embodiment of FIGS. 5-8 illustrates a six- or seven-inch can. The reflector is part of the can instead of a separate part that is fastened inside the can. Ellipsoidal geometry is used to create the 10 form factor of the reflector, achieving superior light output efficiencies. The junction box is also a part of the can. The fluorescent lamp socket clips into the polycarbonate socket bracket, which slides into the junction box and is held in place by 4 ribs. The junction box has knockouts molded into both sides for electrical connections. The baffle clips into the can using cantilever clips, making it removable. The ceiling ring is low profile and 15 clips into the baffle. This snap-in ceiling ring insures simpler removal from the ceiling. The hanger bar supports are also molded into the can instead of a separate framing kit. The steel hanger bars slide in through the supports and are secured using set screws.

The firebox of FIGS. 9-12 is preferably fabricated with twenty-four gauge (.024 in) galvanized sheet metal with triangular protrusions from the top of each wall to secure 20 the insulation when bent ninety degrees inward. One and one-half inch thick mineral wool insulation is provided on all sides and top, held in place by four galvanized sheet

metal retainers riveted to the firebox front and back walls. A quarter-inch compressed fiberglass pad on the bottom of the fire box acts as an insulator against the ceiling sheet rock. The light fixture of the invention rests inside the box and has a flexible wire housing that connects the front of the metal firebox where external wires are connected.

- 5 While the present invention has been described and illustrates in the appended figures, such description and illustration is not intended to be limited to any such particulars or embodiments or any particular embodiment shown herein. Furthermore, the foregoing describes the invention in terms of embodiments foreseen by the inventor for which an enabling description was available, notwithstanding that insubstantial
10 modifications of the invention, not presently foreseen, may nonetheless represent equivalents thereto.

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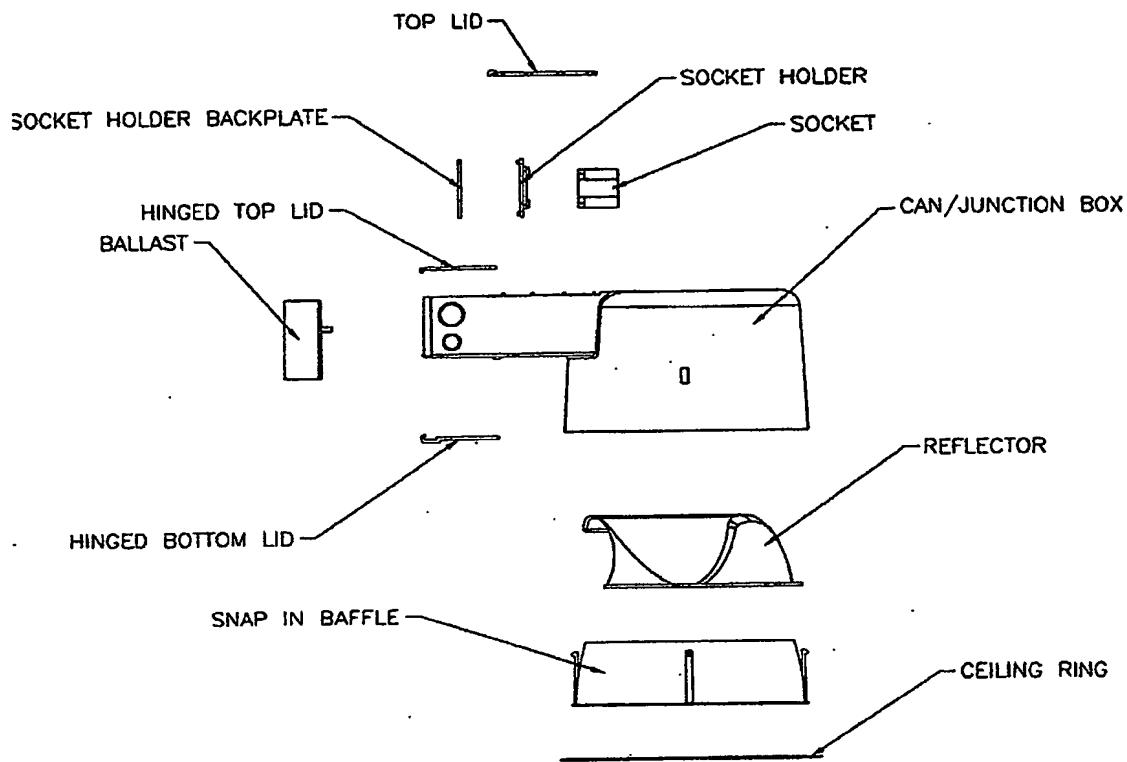


FIG. 1

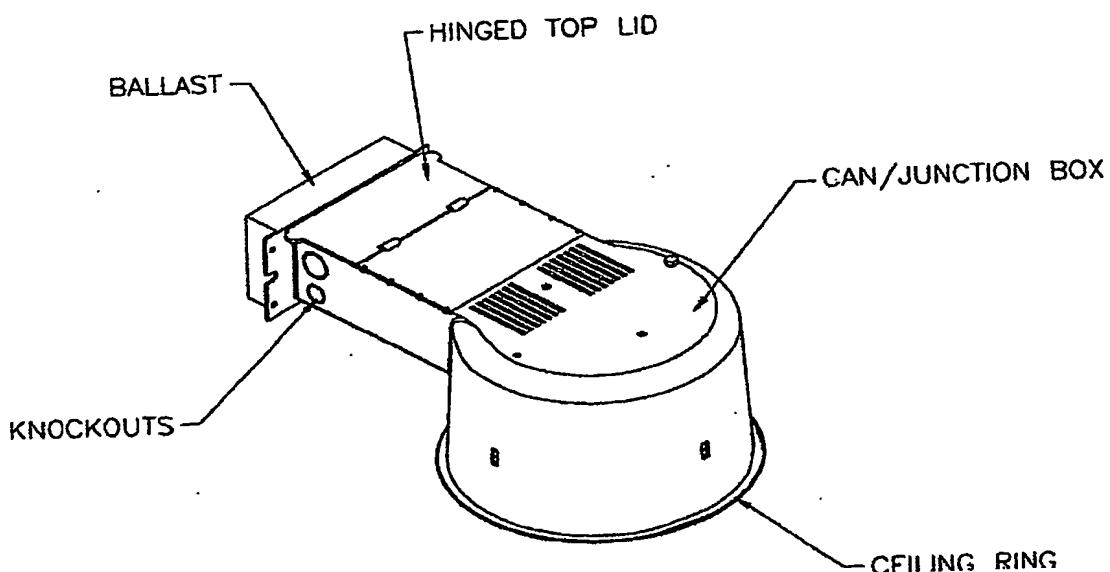


FIG. 2

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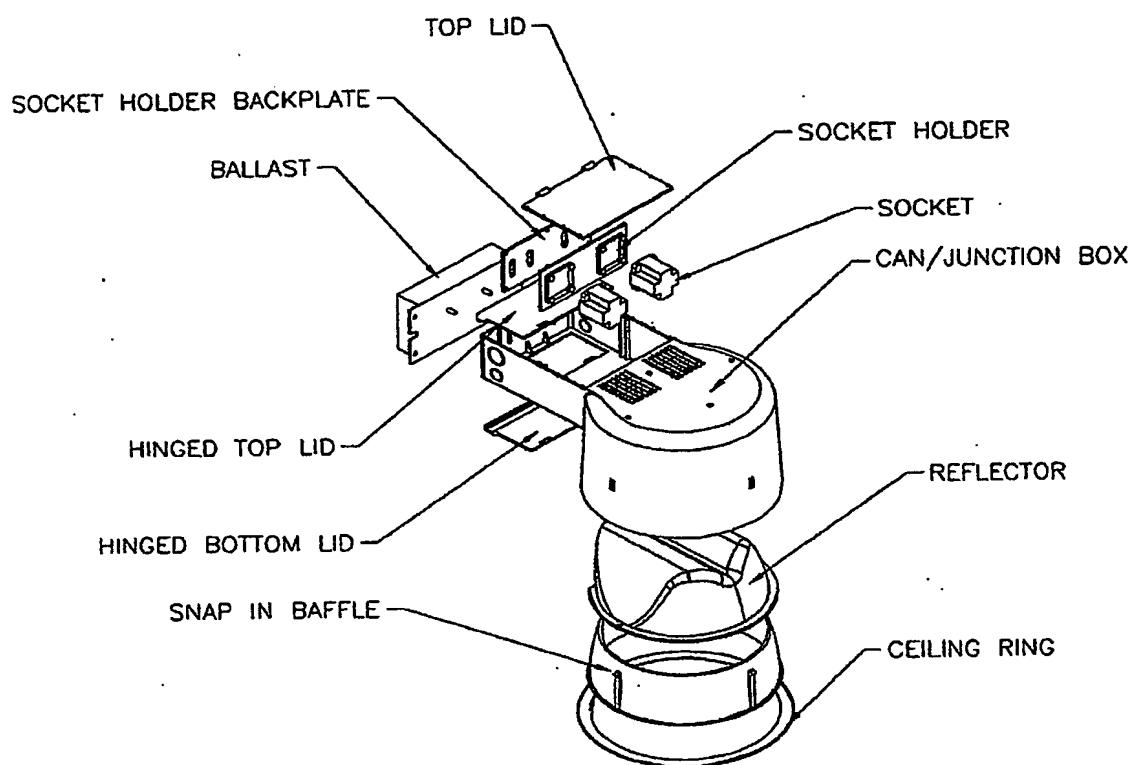
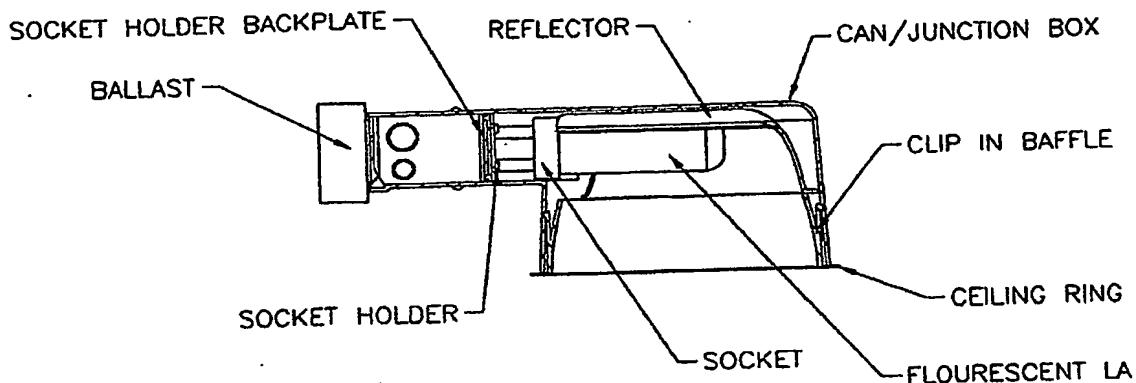
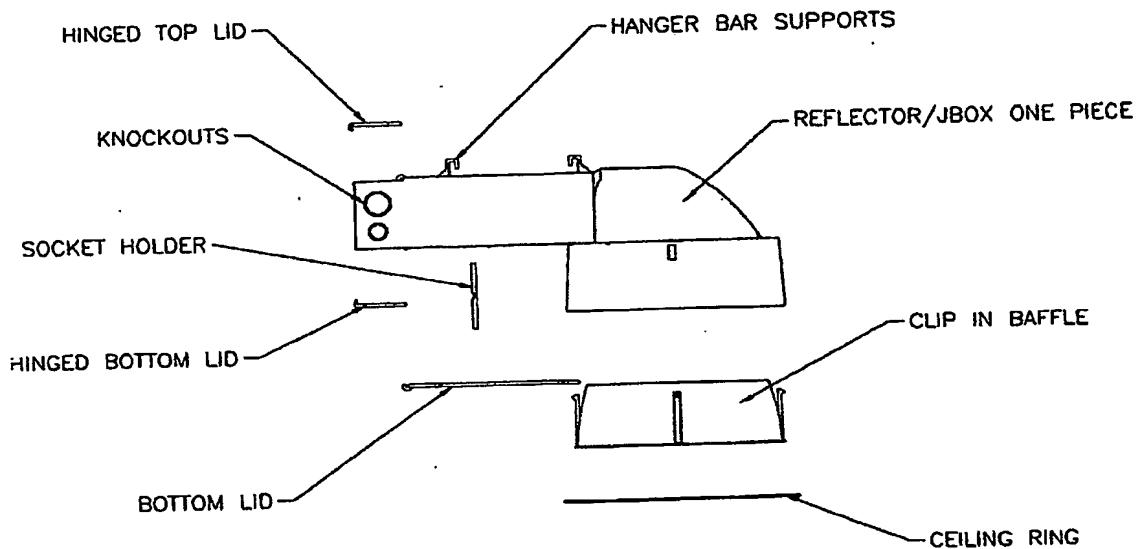


FIG. 3

**FIG. 4****FIG. 5**

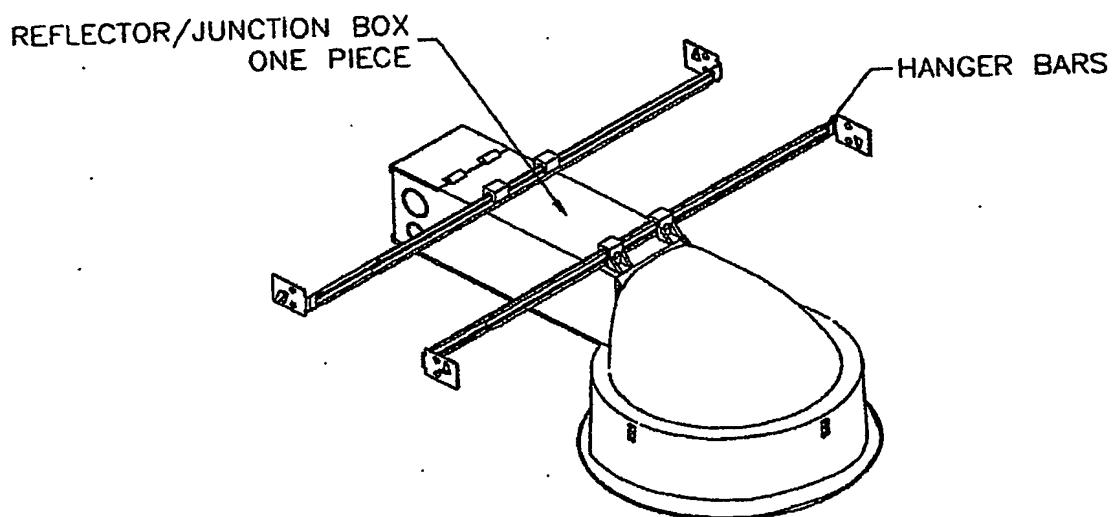
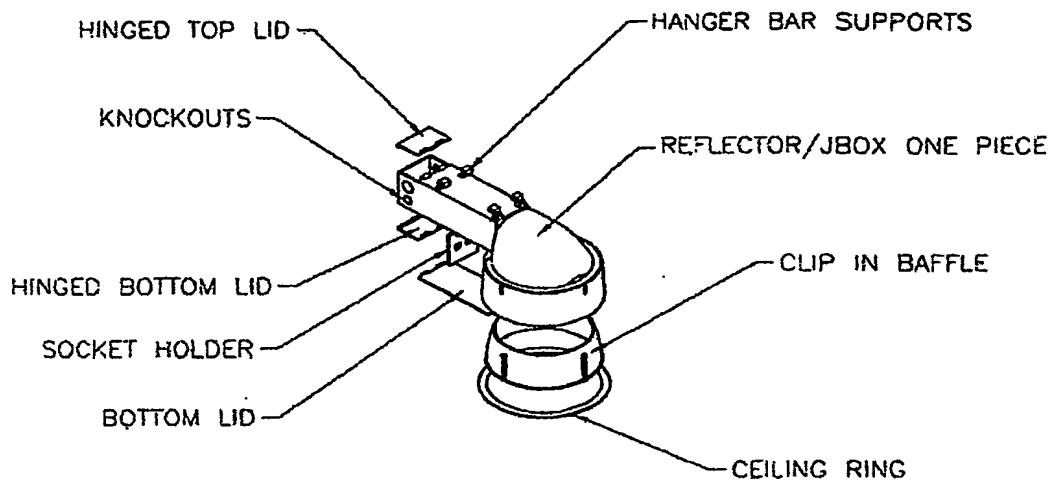
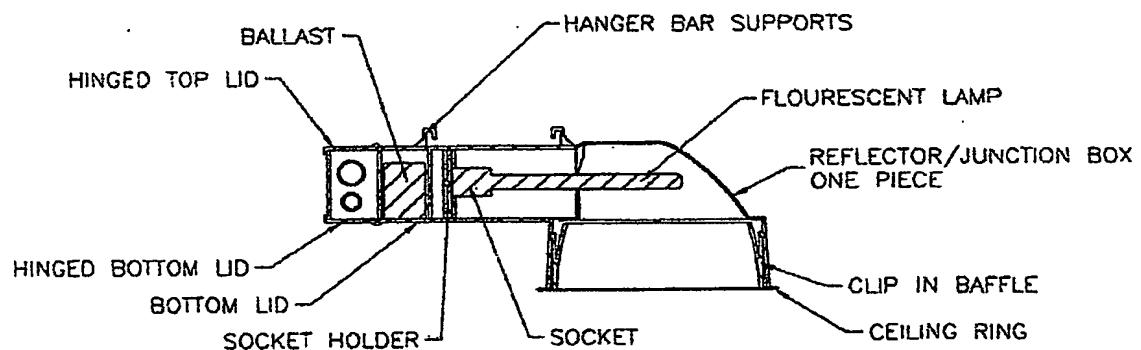


FIG. 6

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**FIG. 7****FIG. 8**

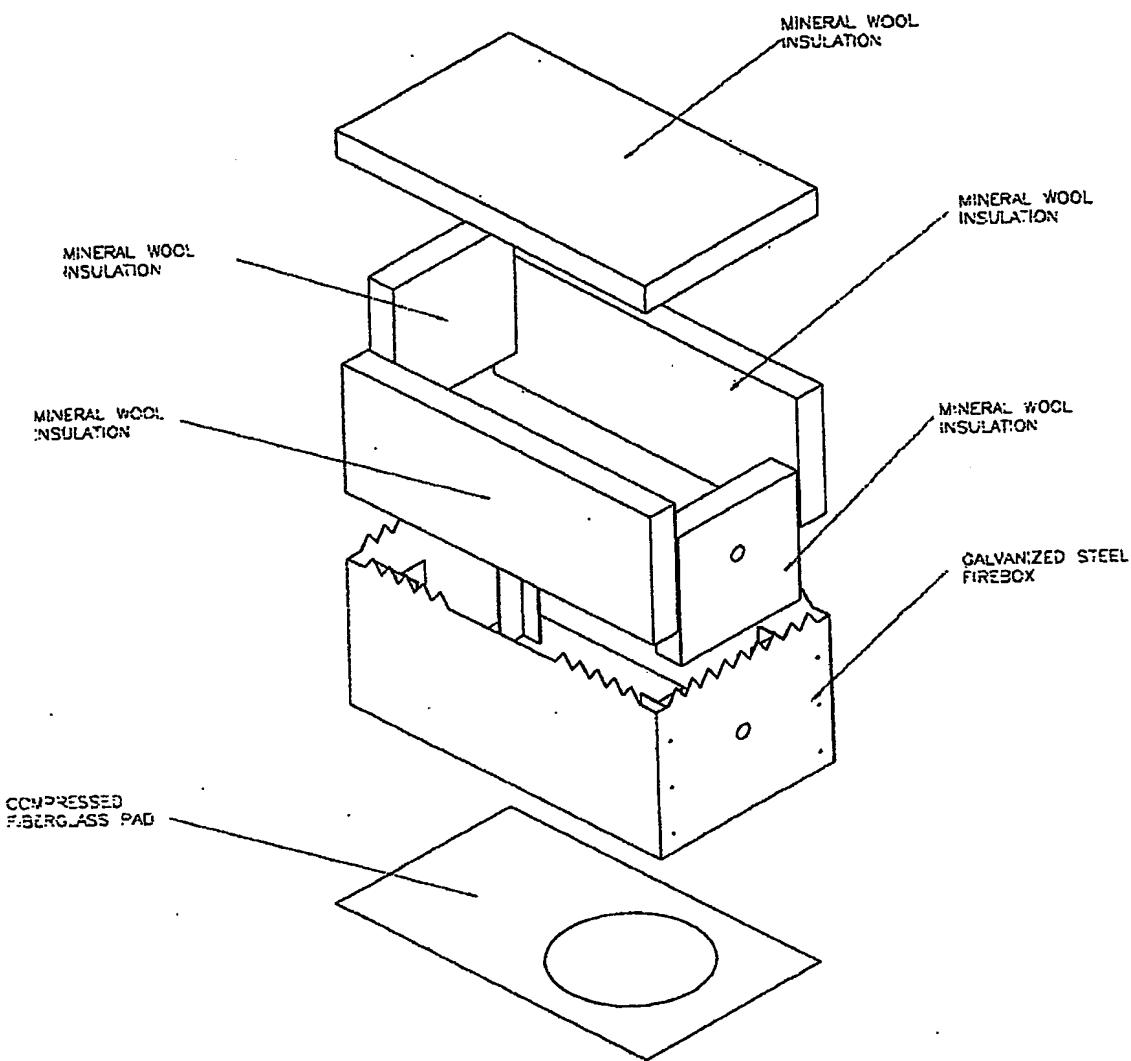
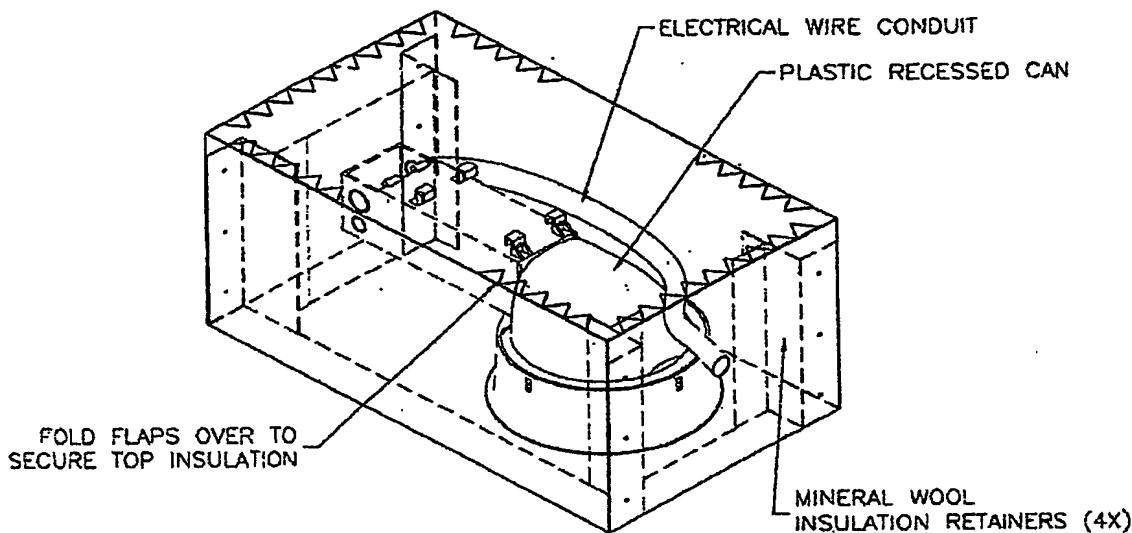
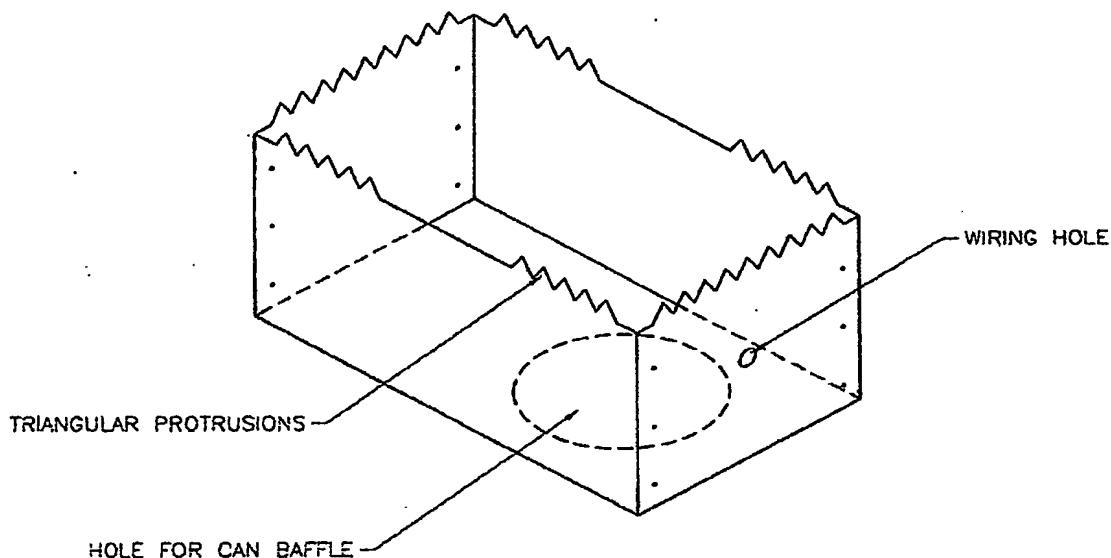


FIG. 9

**FIG. 10****FIG. 11**

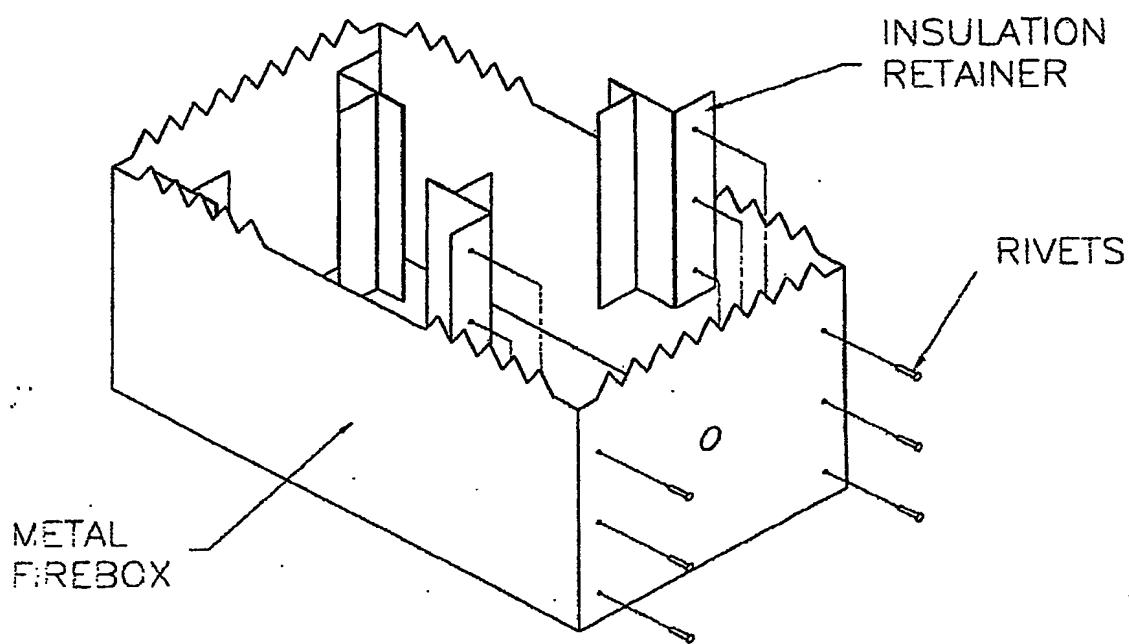


FIG. 12